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L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1                STR
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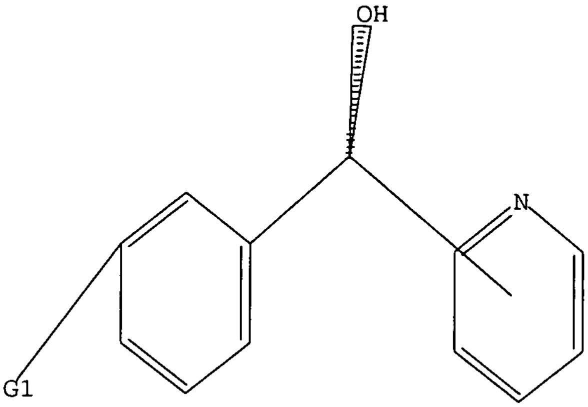

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G1 CF3,OH,MeO,EtO,CHO,C(O)CH3,NH,NH2


Structure attributes must be viewed using STN Express query preparation.


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FULL SEARCH INITIATED 08:18:50 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   232851 TO ITERATE

100.0% PROCESSED   232851 ITERATIONS                          213 ANSWERS
SEARCH TIME: 00.00.02

L2           213 SEA SSS FUL L1
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L1                STR
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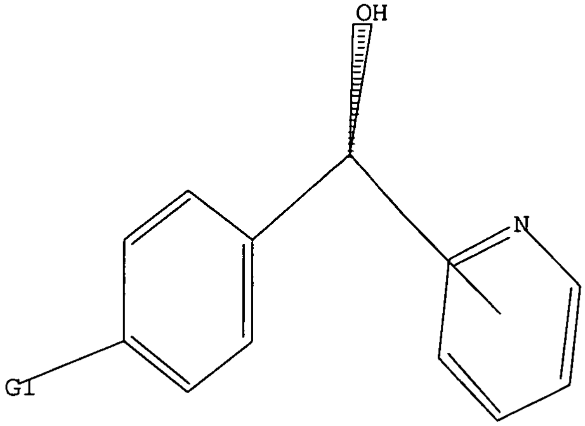

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G1 CF3,OH,MeO,EtO,CHO,C(O)CH3,NH,NH2
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L3       STRUCTURE UPLOADED

=> d
L3 HAS NO ANSWERS
L3                 STR
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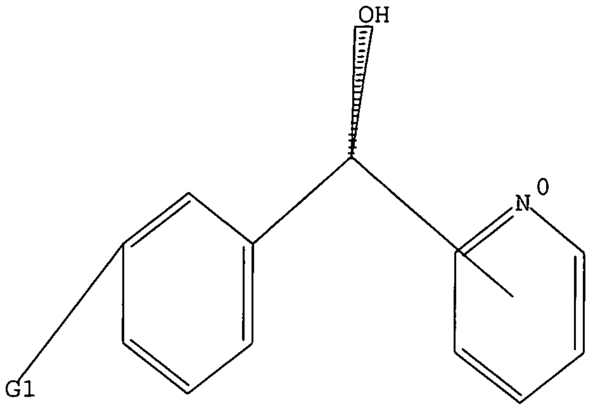

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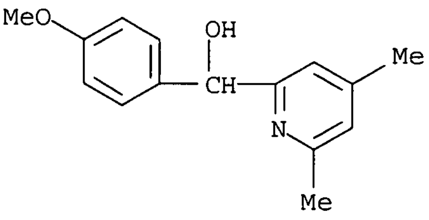
G1 CF3,OH,MeO,EtO,CHO,C(O)CH3,NH,NH2
```

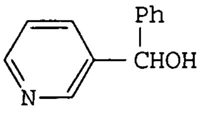
```
L8   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         1955:20072  CAPLUS
DOCUMENT NUMBER:          49:20072
ORIGINAL REFERENCE NO.:   49:3964g-i,3965a
TITLE:                    The Hammick reaction
AUTHOR(S):                Cantwell, Nelson H.; Brown, Ellis V.
CORPORATE SOURCE:         Fordham Univ., New York, NY
SOURCE:                   Journal of the American Chemical Society (1953), 75,
                          1489-90
                          CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE:            Journal
LANGUAGE:                 Unavailable
OTHER SOURCE(S):          CASREACT 49:20072
ABSTRACT:
The Hammick reaction (Brown and H., C.A. 43, 7024h, 7310b) was studied, with a
view to extending it, by varying the nuclear substituents.  The use of various
solvents such as C6H4Br2, O2NC6H4Me, BrC6H4OMe, xylene, and p-cymene in an amount
equivalent to the aldehyde used increased the yield of the carbinol in every case;
p-cymene was the best solvent.  For Hammick reactions with picolinic acid and
various carbonyl compds., the CO compound, product, % yield without and with
p-cymene, and m.p. of product are: BzH, phenylpyridylcarbinol, 17, 54,
78°; Ph2CO, pyridyldiphenylcarbinol, 21, 48, 105°; MeCOPh,
phenylpyridylmethylcarbinol, 23, 50, b745 152°; p-MeOC6H4CHO,
(p-methoxyphenyl)pyridylcarbinol, 26, 59, 131°; m-O2NC6H4CHO,
m-nitrophenyl pyridyl ketone, 15, 48, 118°; m-O2NC6H4COMe,
(m-nitrophenyl)pyridylmethylcarbinol, 20, 42, 130°; p-ClC6H4CHO,
(p-chlorophenyl)pyridylcarbinol, 22, 58, 83°.  For Hammick reactions on
Me-substituted picolinic acids in p-MeOC6H4CHO and p-cymene, the point of
substitution of the methylpicolinic acid, and the % yield and m.p. of the
corresponding methylpyridyl(p-methoxyphenyl)carbinol are: 3, 35, 68°; 4,
53, 96°; 5, 47, 75°; 6, 57, 77°; 4,6-di, 49, 95°.


=> d l8 hitstr

L8   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
IT   856953-78-1, 2-Pyridinemethanol, α-(p-methoxyphenyl)-4,6-
     dimethyl-
        (preparation of)
RN   856953-78-1  CAPLUS
CN   2-Pyridinemethanol, α-(p-methoxyphenyl)-4,6-dimethyl- (5CI)  (CA
     INDEX NAME)
```

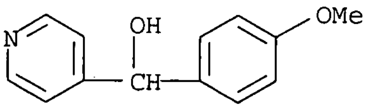


L13 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1992:448284 CAPLUS
DOCUMENT NUMBER: 117:48284
TITLE: Ligand exchange reactions of aryl pyridyl sulfoxides with Grignard reagents: convenient preparation of 3- and 4-pyridyl Grignard reagents and examination of the leaving abilities of pyridyl anions
AUTHOR(S): Shibutani, Tadao; Fujihara, Hisashi; Furukawa, Naomichi; Oae, Shigeru
CORPORATE SOURCE: Dep. Chem., Univ. Tsukuba, Tsukuba, 305, Japan
SOURCE: Heteroatom Chemistry (**1991**), 2(5), 521-31
CODEN: HETCE8; ISSN: 1042-7163
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 117:48284
GI

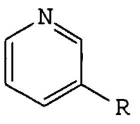

I

AB Aryl 3- and 4-pyridyl sulfoxides undergo ligand exchange reactions with aryl Grignard reagents to generate 3- and 4-pyridyl Grignard reagents, which, upon treatment with aldehydes or ketones, give the corresponding addition products, e.g., I, in moderate-to-good yields. The mechanism for the exchange reaction was investigated by treating optically active 3- and 4-pyridyl p-tolyl sulfoxides with a Ph Grignard reagent. Inversion of the configuration of the sulfur atom was the **stereochem**. result of the reactions. In the reactions of Ph 2-pyridyl sulfoxide with Grignard reagents, the leaving ability of the 2-pyridyl group competes with that of the Ph group. Both the exptl. and MO calculated enthalpy values for deprotonation of the α-, β-, and γ-protons of pyridine in the gas phase are in accordance with the following order of the leaving abilities of aryl and pyridyl Grignard reagents: 4-PyMgBr > 3-PyMgBr » PhMgBr > p-MeC6H4MgBr > 2-PyMgBr.

IT **108771-02-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 108771-02-4 CAPLUS
CN 4-Pyridinemethanol, α-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

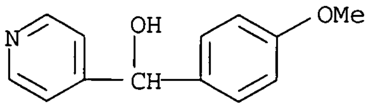


L13 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1987:423213 CAPLUS
DOCUMENT NUMBER: 107:23213
TITLE: Reactions of pyridyl and quinolyl sulfoxides with Grignard reagents. A convenient preparation of pyridyl and quinolyl Grignard reagents
AUTHOR(S): Furukawa, Naomichi; Shibutani, Tadao; Matsumura, Kazunori; Fujihara, Hisashi; Oae, Shigeru
CORPORATE SOURCE: Dep. Chem., Tsukuba Univ., Sakura, 305, Japan
SOURCE: Tetrahedron Letters (**1986**), 27(33), 3899-902
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 107:23213
GI

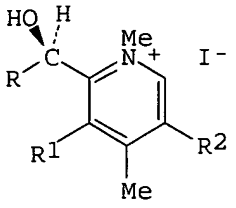


I

AB 3-, 4-Pyridyl and 4-quinolyl Grignard reagents were generated by the reaction of the corresponding Ph sulfoxides with PhMgBr and give the adducts upon treatment with various aldehydes and ketones. The **stereochem**. for the reaction was investigated. Thus, treating sulfoxide (I, R = SOPh) with PhMgBr followed by treatment with BzH gave 88% alc. I [R = CH(OH)Ph].
IT **108771-02-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 108771-02-4 CAPLUS
CN 4-Pyridinemethanol, α-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1982:423599 CAPLUS
DOCUMENT NUMBER: 97:23599
TITLE: **Stereochemistry** in the reduction of 2-(α-hydroxyarylmethyl)pyridinium salts
AUTHOR(S): Bosch, J.; Granados, R.; Llobera, R.; Mauleon, D.; Tur, J.
CORPORATE SOURCE: Fac. Farm., Univ. Barcelona, Barcelona, Spain
SOURCE: Anales de Quimica, Serie C: Quimica Organica y Bioquimica (**1981**), 77(2), 166-70
CODEN: AQSBD6; ISSN: 0211-1357
DOCUMENT TYPE: Journal
LANGUAGE: Spanish
OTHER SOURCE(S): CASREACT 97:23599
GI



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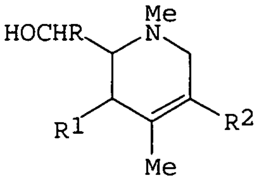

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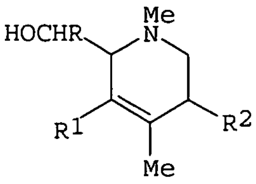
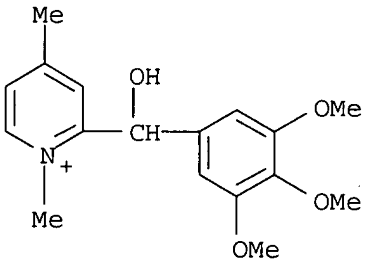


III

AB NaBH4 reduction of pyridinium salts I [R = 3,4,5-(MeO)3C6H2, Ph, 2-furyl, R1 = R2 = H] gave mixts. of erythro-II, threo-II, erythro-III, threo-III in various ratios, whereas I [R = 3,4,5-(MeO)3C6H2, R1 = H, R2 = Me] gave only erythro-II and threo-II and I [R = 3,4,5-(MeO)3C6H2, R1 = Me, R2 = H] gave only erythro-III and threo-III.

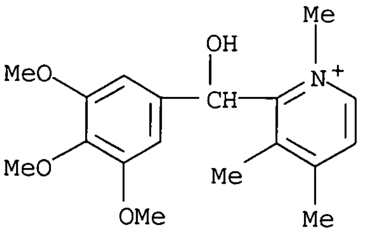
IT **64169-81-9 66600-45-1 70966-13-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(borohydride reduction of)

RN 64169-81-9 CAPLUS
CN Pyridinium, 2-[hydroxy(3,4,5-trimethoxyphenyl)methyl]-1,4-dimethyl-, iodide (9CI) (CA INDEX NAME)



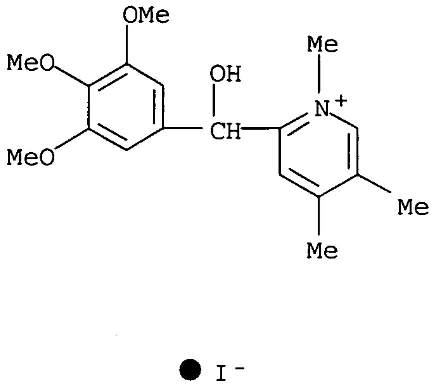
● I^-

RN 66600-45-1 CAPLUS
CN Pyridinium, 2-[hydroxy(3,4,5-trimethoxyphenyl)methyl]-1,3,4-trimethyl-, iodide (9CI) (CA INDEX NAME)



● I^-

RN 70966-13-1 CAPLUS
CN Pyridinium, 2-[hydroxy(3,4,5-trimethoxyphenyl)methyl]-1,4,5-trimethyl-, iodide (9CI) (CA INDEX NAME)

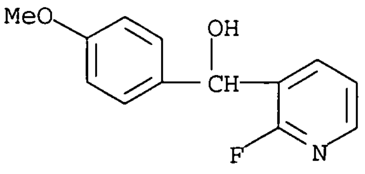


L13 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1981:587017 CAPLUS
DOCUMENT NUMBER: 95:187017
TITLE: Regioselective metalation in the pyridine series: original synthesis of 3-aroyl-2-aminopyridines
AUTHOR(S): Gungor, Timur; Marsais, Francis; Queguiner, Guy
CORPORATE SOURCE: Inst. Natl. Super. Chim. Ind., Mont Saint Aignan, 76130, Fr.
SOURCE: Journal of Organometallic Chemistry (**1981**), 215(2), 139-50
CODEN: JORCAI; ISSN: 0022-328X
DOCUMENT TYPE: Journal
LANGUAGE: French
OTHER SOURCE(S): CASREACT 95:187017

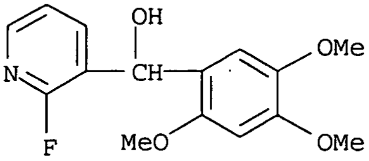
AB Lithium diisopropylamide reacts with 2-fluoropyridine at low temperature: regioselectivity is excellent and metalation occurs without side reactions such as nucleophilic attack. 2-Fluoro-3-lithiopyridine is formed and with aldehydes it gives the corresponding fluorinated alcs. which are then selectively oxidized. Halogen substitution using amines leads to various 3-oxoalkyl- or 3-aroyl-2-aminopyridines.

IT **79574-65-5P 79574-67-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)

RN 79574-65-5 CAPLUS
CN 3-Pyridinemethanol, 2-fluoro-α-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 79574-67-7 CAPLUS
CN 3-Pyridinemethanol, 2-fluoro-α-(2,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1980:620636 CAPLUS

DOCUMENT NUMBER: 93:220636

TITLE: **Stereochemistry** studies on drugs. 8. 1-Phenyl-3-imino-perhydro-3H-oxazolo(3,4-a)pyridine with blood pressure increasing activity

AUTHOR(S): Wollweber, H.; Hiltmann, R.; Stoepel, K.; Kroneberg, H. G.

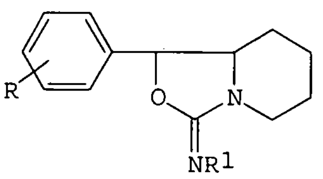
CORPORATE SOURCE: Forschungslab., Bayer A.-G., Werk Elberfeld, Fed. Rep. Ger.

SOURCE: European Journal of Medicinal Chemistry (**1980**), 15(2), 111-17
CODEN: EJMCA5; ISSN: 0009-4374

DOCUMENT TYPE: Journal

LANGUAGE: German

GI



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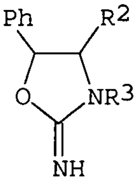


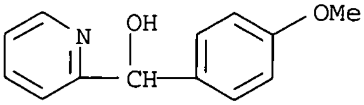
II

AB Isomers of the iminoperhydrooxazolopyridines I (R = H, 3-Me, 4-Me, 3-OMe, 4-OMe, 3-Cl, 4-Cl; R1 = H, Me) and of the iminooxazolidines II (R2, R3 = H, Me) were prepared **stereospecifically** according to literature methods. The antihypotensive and central nervous system stimulant activity of I and II is **stereochem**.-dependent, (-)-trans-I (R = R1 = H) being most active.

IT **27805-39-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reduction of)

RN 27805-39-6 CAPLUS

CN 2-Pyridinemethanol, α-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1976:25769 CAPLUS

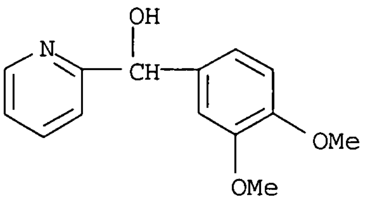
DOCUMENT NUMBER: 84:25769

TITLE: Cholinergic effects of molecular segments of

apomorphine and dopaminergic effects of
N,N-dialkylated dopamines
AUTHOR(S): Ginos, James Z.; Cotzias, Geurge C.; Tolosa, Eduardo;
Tang, Lily C.; LoMonte, Anthony
CORPORATE SOURCE: Med. Res. Cent., Brookhaven Natl. Lab., Upton, NY, USA
SOURCE: Journal of Medicinal Chemistry (**1975**),
18(12), 1194-200
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 84:25769
GI For diagram(s), see printed CA Issue.

AB Mol. segments of apomorphine (I) [58-00-4] [e.g., 1-(3,4-dihydroxybenzyl)-1,2,3,4-tetrahydro-2-methylisoquinoline-HCl (II) [57464-67-2], 2-(3,4-dihydroxybenzyl)-1-methylpiperidine-HCl [57464-65-0]] and N,N-dialkylated dopamines [e.g., N-butyl-N-propyl-3,4-dihydroxyphenethylamine-HCl (III) [57464-71-8]] were prepared and evaluated for LD50 and **stereotypy** in intact mice, body curving in unilaterally caudectomized mice, rotation in hydroxydopamine-lesioned rats, and activation of adenylate cyclase in homogenates of mouse caudate nuclei. Instead of dopaminergic effects, II exhibited cholinergic ones, which were blocked in atropine-pretreated animals. III was the strongest tested dopamine-receptor agonist, while N,N-dimethyl-3,4-dihydroxyphenethylamine-HCl [13075-91-7] showed no dopaminergic effects, showing the effect of the length of the N-alkyl substituent.

IT **31749-10-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reduction of)
RN 31749-10-7 CAPLUS
CN 2-Pyridinemethanol, α-(3,4-dimethoxyphenyl)- (6CI, 8CI, 9CI) (CA INDEX NAME)



L13 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1972:405338 CAPLUS
DOCUMENT NUMBER: 77:5338
TITLE: 4-Hydroxy-3-(hydroxymethyl)phenyl-2-piperidyl
carbinols
INVENTOR(S): Kaiser, Carl; Ross, Stephen T.
PATENT ASSIGNEE(S): Smith Kline and French Laboratories
SOURCE: U.S., 2 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 3655676	A	19720411	US 1970-91222		19701119 <--
US 3879557	A	19750422	US 1973-421465		19731203 <--
PRIORITY APPLN. INFO.:			US 1970-91222	A3	19701119

```
                                  US 1972-216253      A2 19720107
GI   For diagram(s), see printed CA Issue.
AB   The title compds. (I) were prepared by condensation of 3,4-Me(RO)C6H3-CHO (R
     = alkyl) with 2-pyridyllithium, oxidation of the Me to CO2H, cleavage of the
     ether, the reduction of the CO2H and pyridyl groups.  Thus, 4,3-Me(MeO)C6H3CHO
     in Et2O was added to 2-pyridyllithium (prepared from 2-bromopyridine and
     BuLi in hexane at -40°) to give II, which was oxidized by aqueous KMnO4
     to the carboxy ketone (III).  III was hydrolyzed with HBr, hydrogenated
     over PtO2, and washed with Me2CO to give erythro-IV.  The Me2CO extract was
     concentrated to yield threo-IV.  Both diastereoisomers were reduced
     with B2H6 to give the corresponding I (R = Me).
IT   36756-96-4P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of)
RN   36756-96-4  CAPLUS
CN   2-Pyridinemethanol, α-(4-methoxy-3-methylphenyl)- (9CI)  (CA INDEX
     NAME)
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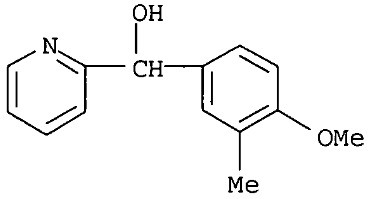

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L13  ANSWER 15 OF 15  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         1971:141555  CAPLUS
DOCUMENT NUMBER:          74:141555
TITLE:                    α-(Hydroxy- and alkoxy-substituted)phenyl-
                          α-(2-piperidinyl)methanols, useful as
                          bronchodilators
INVENTOR(S):              Sankey, George H.; Whiting, Keith D. E.
PATENT ASSIGNEE(S):       Minnesota 3M Laboratories Ltd.
SOURCE:                   Ger. Offen., 24 pp.
                          CODEN: GWXXBX
DOCUMENT TYPE:            Patent
LANGUAGE:                 German
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.          KIND    DATE        APPLICATION NO.         DATE
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     DE 2024049           A      19701217    DE 1970-2024049         19700516 <--
     DE 2024049           B2     19771124
     GB 1316424           A      19730509    GB 1969-25634           19690520 <--
     ZA 7003208           A      19710127    ZA 1970-3208            19700512 <--
     IL 34537             A1     19730330    IL 1970-34537           19700517 <--
     BE 750590            A      19701119    BE 1970-750590          19700519 <--
     FR 2051549           A1     19710409    FR 1970-18131           19700519 <--
     FR 2051549           A5     19710409
     FR 2051549           B1     19740830
     DK 124027            B      19720904    DK 1970-2536            19700519 <--
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     NL 7007303           A      19701124    NL 1970-7303            19700520 <--
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     NL 169314            C      19820701
     JP 49020787          B4     19740527    JP 1970-42819           19700520 <--
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PRIORITY APPLN. INFO.: GB 1969-25634 A 19690520

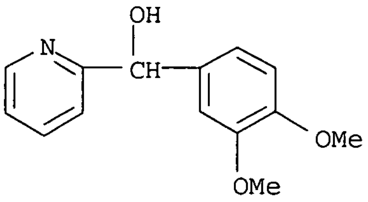
GI For diagram(s), see printed CA Issue.

AB The title compds. (I) are prepared Thus, picolinic acid was added in 3 hr to 3,4-$(MeO)_2C_6H_3CHO$ in p-cumene and the mixture refluxed 3 hr to yield α-(3,4-dimethoxyphenyl)-α-(2-pyridinyl)methanol (II), m. 93-4°. Oxidation of II with $KMnO_4$ gave 3,4-dimethoxyphenyl 2-pyridinyl ketone, m. 93-4°, HBr salt m. 225-6°, which salt was deetherified (HBr) and hydrogenated over Adams catalyst in MeOH to yield I.HBr salt (erythro form, R = H, R1 = 3-OH), m. 220° (decomposition). Also described were 5 addnl. I.

IT **31749-10-7P 31749-13-0P 31754-92-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

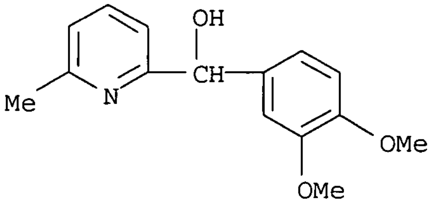
RN 31749-10-7 CAPLUS

CN 2-Pyridinemethanol, α-(3,4-dimethoxyphenyl)- (6CI, 8CI, 9CI) (CA INDEX NAME)



RN 31749-13-0 CAPLUS

CN 2-Pyridinemethanol, α-(3,4-dimethoxyphenyl)-6-methyl- (8CI, 9CI) (CA INDEX NAME)



RN 31754-92-4 CAPLUS

CN 2-Pyridinemethanol, α-(4-hydroxy-3-methoxyphenyl)- (8CI, 9CI) (CA INDEX NAME)